

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/551,452

Source: IFWP

Date Processed by STIC: 2/8/07

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 02/08/2007

PATENT APPLICATION: US/10/551,452

TIME: 11:51:54

Input Set : A:\16554-004US1.txt

Output Set: N:\CRF4\02082007\J551452.raw

3 <110> APPLICANT: Li, Yingfu  
 4 Nutiu, Razvan  
 6 <120> TITLE OF INVENTION: APTAMER SELECTION METHOD  
 8 <130> FILE REFERENCE: 16554-004US1  
 10 <140> CURRENT APPLICATION NUMBER: US 10/551,452  
 11 <141> CURRENT FILING DATE: 2005-09-29  
 13 <150> PRIOR APPLICATION NUMBER: PCT/CA2004/000482  
 14 <151> PRIOR FILING DATE: 2004-03-31  
 16 <150> PRIOR APPLICATION NUMBER: US 60/458409  
 17 <151> PRIOR FILING DATE: 2003-03-31  
 19 <160> NUMBER OF SEQ ID NOS: 27  
 21 <170> SOFTWARE: PatentIn version 3.1  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 30  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: immobilized biotinylated DNA  
 31 <400> SEQUENCE: 1  
 32 taccgcaaaa aaaaacaaga atcgctgcag 30  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 91  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Artificial Sequence  
 40 <220> FEATURE:  
 41 <223> OTHER INFORMATION: library oligonucleotide  
 43 <220> FEATURE:  
 44 <221> NAME/KEY: misc\_feature  
 45 <222> LOCATION: (22)..(31)  
 46 <223> OTHER INFORMATION: n = a, c, g or t  
 49 <220> FEATURE:  
 50 <221> NAME/KEY: misc\_feature  
 51 <222> LOCATION: (51)..(70)  
 52 <223> OTHER INFORMATION: n = a, c, g or t  
 55 <400> SEQUENCE: 2  
 W--> 56 cctgccacgc tccgcaagct tnnnnnnnnn nctgcagcga ttcttgatcg nnnnnnnnnn 60  
 58 nnnnnnnnnn taagcttggc acccgcatcg t 91  
 61 <210> SEQ ID NO: 3  
 62 <211> LENGTH: 15  
 63 <212> TYPE: DNA  
 64 <213> ORGANISM: Artificial Sequence  
 66 <220> FEATURE:  
 67 <223> OTHER INFORMATION: Primer 1

## RAW SEQUENCE LISTING

DATE: 02/08/2007

PATENT APPLICATION: US/10/551,452

TIME: 11:51:54

Input Set : A:\16554-004US1.txt

Output Set: N:\CRF4\02082007\J551452.raw

```

69 <400> SEQUENCE: 3
70 gcggagcgtg gcagg                                     15
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 22
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Primer 2
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <222> LOCATION: 22
84 <223> OTHER INFORMATION: n = "Ribo-A".
87 <400> SEQUENCE: 4
W--> 88 acgatgcggg tgccaagctt an                         22
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 15
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Primer 3
99 <400> SEQUENCE: 5
100 cctgccacgc tccgc                                     15
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 52
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: ATP Aptamer - 1ATP1
111 <400> SEQUENCE: 6
112 acttcggagg agttctgcag cgatcttgat cggggacggg ggagaaaggt tt 52
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 52
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: ATP Aptamer - 1ATP2
123 <400> SEQUENCE: 7
124 acttcggagg agttctgcag cgatcttgat cggggacggg ggagaaaggt gt 52
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 52
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: ATP Aptamer - 1ATP3
135 <400> SEQUENCE: 8
136 acttcggagg agttctgcag cgatcttgat cggggatggg ggagaaaggt tt 52
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 53
141 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 02/08/2007

PATENT APPLICATION: US/10/551,452

TIME: 11:51:54

Input Set : A:\16554-004US1.txt

Output Set: N:\CRF4\02082007\J551452.raw

```

142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: ATP Aptamer - 2 ATP1
147 <400> SEQUENCE: 9
148 aactttggag gagatcgag cgattcttga tcgtcatcgg gggagaagtg ata      53
151 <210> SEQ ID NO: 10
152 <211> LENGTH: 53
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: ATP Aptamer - 2ATP2
159 <400> SEQUENCE: 10
160 aactttggag gagatcgag tgattcttga tcgccatcgg gggagaagtg aca      53
163 <210> SEQ ID NO: 11
164 <211> LENGTH: 53
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: ATP Aptamer - 2ATP3
171 <400> SEQUENCE: 11
172 aactttggag gagatcgag cgattcttga tcgctatcgg gggagaagtg ata      53
175 <210> SEQ ID NO: 12
176 <211> LENGTH: 53
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: ATP Aptamer - 2ATP4
183 <400> SEQUENCE: 12
184 aactttggag gagatcgag tgattcttga tcgccatcgg gggagaagtg aca      53
187 <210> SEQ ID NO: 13
188 <211> LENGTH: 54
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: ATP Aptamer - 2ATP5
195 <400> SEQUENCE: 13
196 aagcttcgga ggagaactgc agtgatcttg atcgcatctt cgggggagaa tgcc      54
199 <210> SEQ ID NO: 14
200 <211> LENGTH: 54
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: ATP Aptamer - 3ATP1
207 <400> SEQUENCE: 14
208 aagctggagg aggaactgca gcgattcgtg atcggaaggg taacggggga ggct      54
211 <210> SEQ ID NO: 15
212 <211> LENGTH: 52
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence

```

## RAW SEQUENCE LISTING

DATE: 02/08/2007

PATENT APPLICATION: US/10/551,452

TIME: 11:51:54

Input Set : A:\16554-004US1.txt

Output Set: N:\CRF4\02082007\J551452.raw

```

216 <220> FEATURE:
217 <223> OTHER INFORMATION: GTP Aptamer - 1GTP1
219 <400> SEQUENCE: 15
220 aagggggtgg tttccgcagt gattcttgat cgcggaagtt ggtggggagg gt      52
223 <210> SEQ ID NO: 16
224 <211> LENGTH: 52
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: GTP Aptamer - 1GTP2
231 <400> SEQUENCE: 16
232 aagggggtgg tttccgcagc gattcttgat cgcggaagtc ggtggggagg gt      52
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 52
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: GTP Aptamer - 1GTP3
243 <400> SEQUENCE: 17
244 aagggggtgg tttccgcagc gattcttgat cgcggaagtt ggcggggagg gt      52
247 <210> SEQ ID NO: 18
248 <211> LENGTH: 52
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: GTP Aptamer - 1GTP4
255 <400> SEQUENCE: 18
256 gagggggtgg tttccgcagc gattcttgat cgcggaagtt ggtggggagg gt      52
259 <210> SEQ ID NO: 19
260 <211> LENGTH: 52
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: GTP Aptamer - 1GTP5
267 <400> SEQUENCE: 19
268 aagggggtgg tttctgcagt gattcttgat cgcggaagtt ggtggggagg gt      52
271 <210> SEQ ID NO: 20
272 <211> LENGTH: 88
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: ATP Aptamer - 1ATP1 with primer domain
279 <400> SEQUENCE: 20
280 cctgccacgc tccgcacttc ggaggagttc tgcagcgatc ttgatcgggg acgggggaga      60
282 aaggttttaa gcttggcacc cgcacgct      88
285 <210> SEQ ID NO: 21
286 <211> LENGTH: 89
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence

```

## RAW SEQUENCE LISTING

DATE: 02/08/2007

PATENT APPLICATION: US/10/551,452

TIME: 11:51:54

Input Set : A:\16554-004US1.txt

Output Set: N:\CRF4\02082007\J551452.raw

```

290 <220> FEATURE:
291 <223> OTHER INFORMATION: ATP Aptamer - 2ATP1 with primer domain
293 <400> SEQUENCE: 21
294 cctgccacgc tccgcaactt tggaggagat cgcagcgatt cttgatcgtc atcgggggag      60
296 aagtgatata agcttggcac ccgcatcgt                                         89
299 <210> SEQ ID NO: 22
300 <211> LENGTH: 90
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: ATP Aptamer - 2ATP5 with primer domain
307 <400> SEQUENCE: 22
308 cctgccacgc tccgcaagct tcggaggaga actgcagtga tcttgatcgc attttcgggg      60
310 gagaatgcct aagcttggca cccgcatcgt                                         90
313 <210> SEQ ID NO: 23
314 <211> LENGTH: 90
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: ATP Aptamer - 3ATP1 with primer domain
321 <400> SEQUENCE: 23
322 cctgccacgc tccgcaagct ggaggaggaa ctgcagcgat tcgtgatcgg aagggtaacg      60
324 ggggaggctt aagcttggca cccgcatcgt                                         90
327 <210> SEQ ID NO: 24
328 <211> LENGTH: 88
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: GTP Aptamer - 1GTP1 with primer domain
335 <400> SEQUENCE: 24
336 cctgccacgc tccgcaaggg ggtggtttcc gcagtgattc ttgatcgcgg aagttggtgg      60
338 ggagggttaa gcttggcacc cgcatcgt                                         88
341 <210> SEQ ID NO: 25
342 <211> LENGTH: 88
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: GTP Aptamer - 1GTP2 with primer domain
349 <400> SEQUENCE: 25
350 cctgccacgc tccgcaaggg ggtggtttcc gcagcgattc ttgatcgcgg aagtcggtgg      60
352 ggagggttaa gcttggcacc cgcatcgt                                         88
355 <210> SEQ ID NO: 26
356 <211> LENGTH: 88
357 <212> TYPE: DNA
358 <213> ORGANISM: Artificial Sequence
360 <220> FEATURE:
361 <223> OTHER INFORMATION: GTP Aptamer - 1GTP5 with primer domain
363 <400> SEQUENCE: 26
364 cctgccacgc tccgcaaggg ggtggtttct gcagtgattc ttgatcgcgg aagttggtgg      60

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/551,452

DATE: 02/08/2007  
TIME: 11:51:55

Input Set : A:\16554-004US1.txt  
Output Set: N:\CRF4\02082007\J551452.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. ~~22,23,24,25,26,27,28,29,30,31,51~~,52,53,54,55,56,57,58,59,60

Seq#:2; N Pos. ~~61,62,63,64,65,66,67,68,69,70~~

Seq#:4; N Pos. 22

Seq#:27; N Pos. ~~6~~,8,9,10,11,12,13,14,15,16,33,34,35,36,37,38,39,40,41,42,43

Seq#:27; N Pos. 44,45,46,47,48,49,50,51,52

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/551,452

DATE: 02/08/2007

TIME: 11:51:55

Input Set : A:\16554-004US1.txt

Output Set: N:\CRF4\02082007\J551452.raw

L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

M:341 Repeated in SeqNo=2

L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0